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PATENT

Case Docket No. LEITH1.002AUS



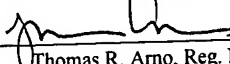
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Silberman et al.
 Appl. No. : 10/719,932
 Filed : November 21, 2003
 For : PRESSING DEVICE FOR
 MANUFACTURING OF
 SHAPED COMPACTS FROM
 PULVERIZED MATERIAL
 Examiner : Unassigned
 Group Art Unit : 1722

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

9/10/04

(Date)



Thomas R. Arno, Reg. No. 40,490

TRANSMITTAL LETTER

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

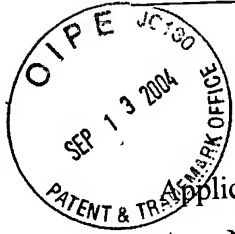
Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with four (4) references.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.



Thomas R. Arno
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INFORMATION DISCLOSURE STATEMENT

Applicant	:	Silbermann et al.
App. No.	:	10/719,932
Filed	:	November 21, 2003
For	:	PRESSING DEVICE FOR MANUFACTURING OF SHAPED COMPACTS FROM PULVERIZED MATERIAL
Examiner	:	Unassigned
Group Art Unit	:	1722

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing four references that are also enclosed.

From Hinzpeter Jurgen et al. (DE 197 17 217 C2) there is known a method and a device for manufacturing of compacts from hard metal, ceramics, sinter metal and the like. Thereby, under consideration of the material, which has to be pressed, and the feeding, a press error is determined during one single process and being compensated by alteration of pressure with respect to one specific pressing punch. In order to make possible the latter, via pressing tests a pre-determined curve is established and stored as a force-way-diagram. The real curve of later pressing procedures is compared with this pre-determined curve. Therefore, a possible error is compensated by a balancing comparison with the pre-determined curve as far as production of an individual compact is concerned.

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From Liebl Hans (DE 37 15 077 C2) there is known a method for manufacturing of compacts and/or structured parts from pulverized or granulised materials. Besides, there can be taken from, that in the course of one lifting the removing force is measured, when the press tools are removed, and being the removing force compared with pre-determined values for comparison, and that dependent on the results of comparison, the further controlling of the press, i.e. for the individual subsequent pressing procedures, is carried out. Particularly, there is provided an interruption of the removing, when the measured removing force is larger than a pre-determined value for comparison, in order to make possible a cleaning or an exchange of the tool.

From Yamamoto, Masao et al. (DE 42 03 401 A1) there are known a powder mould pressing method and a powder mould pressing device, according to which there is intended to press each graduated section of a graduated mould part equally in order to prevent by that way the building of cracks in the structured part and in order to make unnecessary the adjustment of a filling depth and a pressure in the cylinder, which belongs to the apparatus. According to this press method, there is furthermore intended to avoid bending of the posts and of the hydraulic cylinder for the different punch plates. The process of this method is calculated with the aid of target or pre-determined values. In order to solve this object it is suggested to determine a speed ratio of movement speeds of an upper and a lower punch part, when the particular graduated sections of the compact are pressed together during the time between the beginning and the end of the pressing, and besides, there is intended to determine a compression ratio of pressed dimensions of the graduated sections of the structured part or compact and to control the relative movement speeds of the upper punch part, of the lower punch part and the mould or die in such a way, that the speed ratios are in accord with the compression ratios of the graduated sections of the structured part.

From Nakagawa, Tatsuji et al. (JP 07290294 A) there is known a method for preparing of operating data of a press. According to this method, in a first step simulations are carried out by calculation and being shown on a screen, the simulations being calculating a pressing procedure, which is to be carried out at a later time. As soon as the simulation result corresponds to the demands, then, in a second method step conversion into controlling operating data of the appropriate press takes place. With the help of these controlling operating data the machine will

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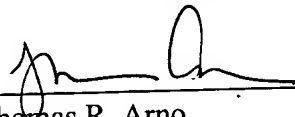
be driven in the following being finally explicitly stated that the test processing, which by the expert is also called test lifting can be shortened by a plurality of test liftings with respect to the proceeding up to now. What remains problematically, however, is the danger of error caused by input error, not considered parameters with respect to the simulation program, conversion errors into the machine parameters and mistakes as far as input of machine parameters into the press is concerned.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 9/10/04

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
LEITH1.002AUSAPPLICATION NO.
10/719,932INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Silberman et al.FILING DATE
November 21, 2003GROUP
1722

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	1	07290294 A	11/7/1995	JP			X (Abstract Only)	
	2	42 03 401 A1	2/5/1992	DE				X
	3	37 15 077 C2	5/6/1987	DE				X
	4	197 17 217 C2	4/24/1997	DE				X

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER INITIAL	

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EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.